

XL20A Adapter Card

Description

The ArchiveXL 20A Rev. B Adapter Card is used to support an ArchiveXL internal tape drive installation when two floppy disk drives are already installed, or for an external ArchiveXL tape drive installation. Additional XL20A Adapter Cards can be purchased for every additional computer you wish to have share your ArchiveXL external tape drive.

What is a Four-Port FDC?

Four-port floppy disk controllers are capable of handling more than two floppy disk drives. Normally, this is seen by the presence of a 37 pin floppy connector on the rear of your system. If you are not sure if you have a four-port floppy disk controller, please refer to your computer hardware manual. Some examples of four-port systems are the IBM XT (original) and some multi-function I/O cards.

Things To Know Before Getting Started

Handling Precautions

The XL20A Adapter Card can be damaged by static electricity discharge. Handle the card as little as possible.

The card is shipped in a protective anti-static bag. Keep the card in this bag until you are ready for installation.

Before you remove the anti-static bag, discharge any static electricity from your body. Do this by placing your hand on your system chassis frame or any grounded metal surface.

Once you remove the bag, hold the card by its edges. Avoid touching components and connector pins.

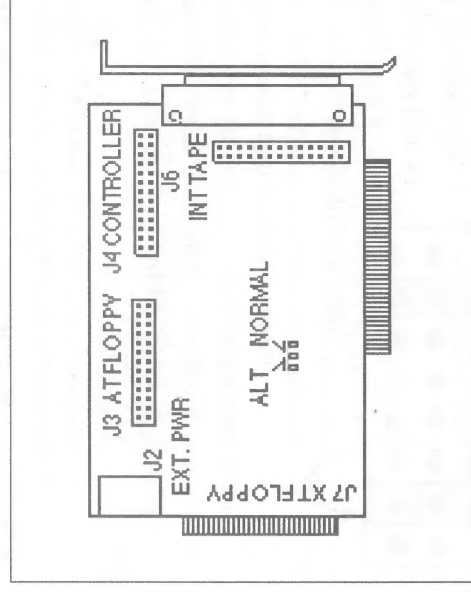
The XL20A Adapter Card kit contains cable connectors which can be damaged by careless handling. Avoid touching connector pins and sockets.

The computer system power must be turned off before any installation is performed. Also, unplug the keyboard, monitor, and other devices from the system back panel.

NOTE: Most AT 286/386-type computers only support two internal floppy drives.

References

This manual is to be used in addition to the installation manual enclosed with your ArchiveXL tape drive. You should read and understand both manuals before installing your tape drive. Additional information and troubleshooting hints are found in both the *ArchiveXL Installation Manual* and the *QICstream Software User Manual*.



Installing an XL20A with an Internal ArchiveXL as a Third Floppy Device

The following procedure is used for installing the XL20A with an ArchiveXL 5240, 5540 or 5580 internally as a third device. This means that the computer will have two floppy disk drives and one XL tape drive.

Remove the computer system cover. Refer to your computer hardware manual if you need further instructions for cover removal or for locating hardware in your computer.

Confirming that Terminator is Installed on the Tape Drive

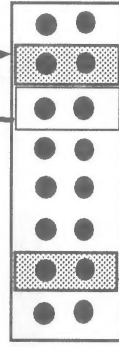
DO NOT REMOVE the terminating resistor located on the back side fo the ArchiveXL tape drive. You must have a terminator installed on the tape drive when using it as a third floppy device or the tape drive will not be seen by the software.

Changing Drive Selection Jumper

YOU MUST RECONFIGURE the tape drive selection jumper on the back of the ArchiveXL tape drive. The factory default is set for DS2 (as a second floppy device) and you will need to change it to DS3.

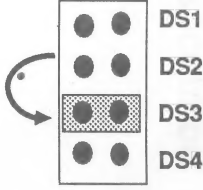
The Drive Select (DS) jumper block is located on the back of the ArchiveXL tape drive. Refer to the ArchiveXL Installation Manual for your tape drive model and proper location.

For the models 5240 and 5540, change the jumper from DS2 (pin 6) to DS3 (pin 7).



(5240 Only)

For the model 5580, change the jumper from DS2 (pin 2-7) to DS3 (pin 3-6).



Connecting Power to the ArchiveXL Tape Drive

1. After reconfiguring the tape drive as a third device, slide the tape drive into the device opening in the computer.
2. If your computer does not have an extra power plug for a third floppy drive, then you will be required to use the Power "Y" cable from your XL20A kit to supply power to your ArchiveXL tape drive. If you have an extra power cable in your computer then skip to step 7 below.

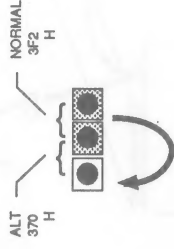
3. Locate the power cable connector on the back of one of your floppy disk drives.
4. Unplug the power connector from the floppy disk drive.
5. Install the male connector end of the Power "Y" cable into the end of the cable connector you just unplugged from the floppy disk drive.
6. Connect one of the female connector ends to the floppy disk drive.
7. Connect the remaining female connector end to the rear of the ArchiveXL tape drive.

Installing the XL20A Adapter Card

1. The XL20A card's jumper must be set in the NORM (3F2H) position if your computer has a two port floppy disk controller.

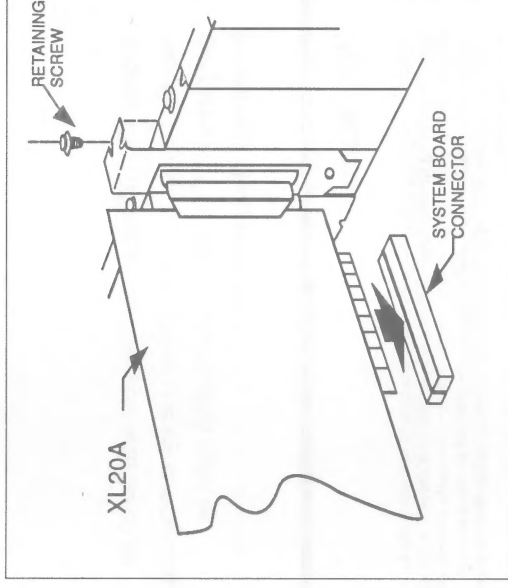
The XL20A card's jumper must be set in the ALT (370H) position if your computer has either a four port floppy disk controller board or the floppy disk controller is built into the computer's mother board.

NOTE: You need QICstream 1.9 or above to recognize the alternate jumper setting



2. Locate your floppy disk controller by referring to your computer system manual. Then locate an empty expansion slot with enough room to the right for cable installation, an empty slot on the component side of the adapter is ideal. Remove the slot cover and save the screw.

NOTE: If your system has too many cards to allow for an empty slot to the right, then perform the cable installation first and then install the adapter card.



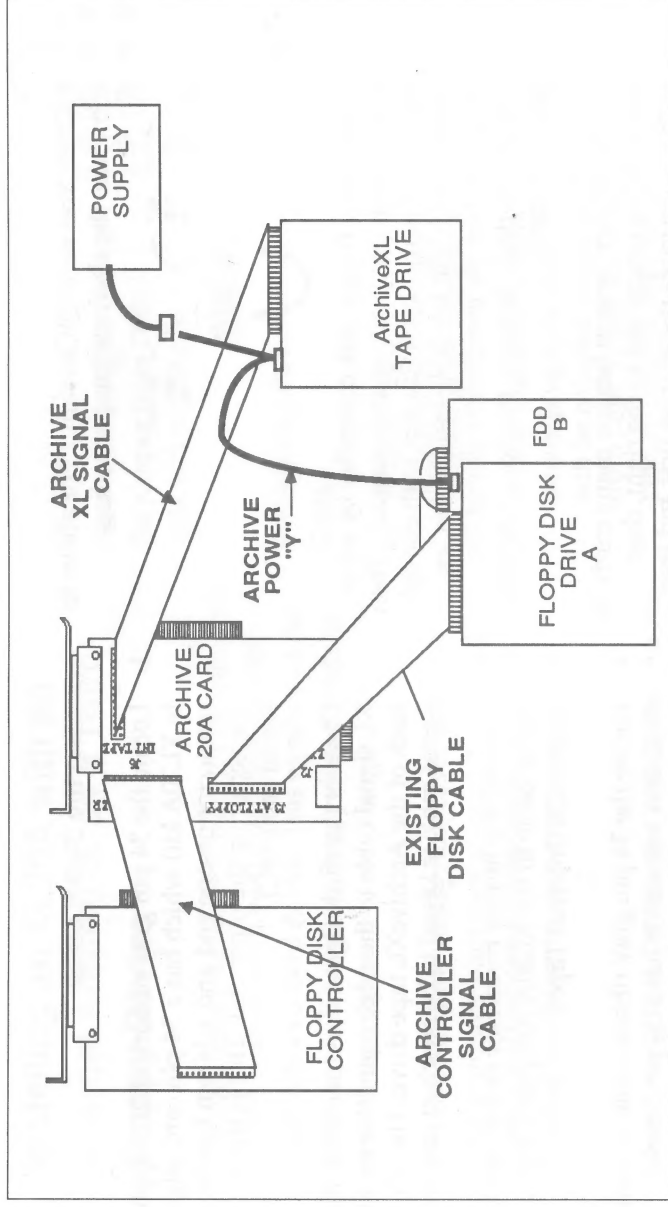
3. Install the XL20A Adapter Card in an empty card slot, securing it with the slot cover screw.
4. When installing the tape drive internally, no power is required to the XL20A card so the connector labelled J2 (Ext. Power) should be left open. The power "Y" cable is not required for the XL20A Adapter Card when the tape drive is installed internally. If you are installing an external ArchiveXL, then the power "Y" cable is required to be connected to the XL20A card.

Installing the Signal Cable

1. Locate the 34 pin gray ribbon cable (supplied in XL20A kit) which has a 34 pin card edge connector on one end and a 34 pin header connector on the other end. This is the XL signal cable (4C).
2. Connect the card edge connector end of the XL signal cable to the edge connector on the back of the ArchiveXL tape drive. The XL signal cable is keyed to be attached one way.
3. Connect the header connector end of the XL signal cable to the XL20A Adapter Card at location J6 (Internal Tape).
4. Locate the 34 pin gray ribbon cable (supplied in XL20A kit) which has a 34 pin header connector on both ends. This is the controller signal cable.
5. Connect either end of the controller signal cable to the XL20A adapter connector labelled J4 (Controller). The controller signal cable connector is keyed to fit only one way.
6. Disconnect the floppy disk drive signal cable from the floppy disk controller. If you are not sure which cable to disconnect, follow the signal cable from the back of the floppy disk drive(s) to the floppy disk controller, or refer to your computer hardware manual. Replace the floppy disk drive signal cable with the other end of the controller signal cable.
7. Connect the floppy disk drive signal cable (the one you removed in the previous step) to the XL20A Adapter Card connector labelled J3 (AT Floppy).

NOTE: If your XT compatible floppy disk controller has an edge connector instead of a header connector, you can use an XL signal cable (4C) for this connection. You will connect your floppy disk drive signal cable to the XL20A adapter card connector labelled J7 (XT Floppy).

The final installation should look like the figure shown on the last page.



Installing an XL20A in Order to Share an External ArchiveXL Tape Drive

Refer to the ArchiveXL Installation Manual supplied with your ArchiveXL for more information. The installation of the XL20A into a second computer is similar to the instructions

above. The difference is that you will have to supply power to the ArchiveXL by connecting the power "Y" cable to the XL20A card in location J2 (Ext. Power).

FCC Notice

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Product features and specifications described in this document are subject to change without notice.

WARNING: This equipment has been certified to comply with the limits for a Class B computing device, pursuant to Subpart J of Part 15 of the FCC rules. Only peripherals (computer, computer input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this tape drive. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

NOTE: This equipment generates and uses radio frequency energy and if not installed with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna;
- Relocate the computer with respect to the receiver;
- Move the computer away from the receiver;
- Plug the computer into a different outlet so that the computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. (Stock #004-000-00345-4).

WARNING: The use of a non-shielded interface cable with this adapter card is prohibited.